

Amendments to Claims

This listing of claims will replace all prior version of the claims in the application:

Listing of Claims

Claims 1 to 20 (previously cancelled)

Claims 21 to 41 (Cancelled)

Please add the following new claims:

42. (New): A Reflection-photometric analytical system for reflectometric examination of a target surface of a test strip for body fluids, the analytical system comprising:

a measuring head arranged at a distance from the target surface, wherein the measuring head consists of a radiation source and a radiation detector;

a triangulation unit operating on the basis of optical triangulation for detecting the distance of the measuring head from the target surface without contact with the target surface, wherein the triangulation unit has a light emitter directed towards the target surface in an incidence axis and a light receiver pointing towards the target surface in the direction of a receiving axis; and

a control device to set a constant measuring distance between the measuring head and the target surface.

43. (New): The analytical system as claimed in claim 42, wherein the incidence and receiving axis intercept at a reference point at a specified angle and the reference point defines a reference position of the target surface.

44. (New): The analytical system as claimed in claim 42, wherein the incidence and receiving axis enclose different angles relative to a perpendicular on the target surface.

45. (New): The analytical system as claimed in claims 42, wherein the light receiver has a sensor, which is position resolving at right angles to the receiving axis.
46. (New): The analytical system as claimed in claims 45, wherein the sensor is a PSD sensor, CCD sensor or multi-element diode sensor.
47. (New): The analytical system as claimed in claim 42, wherein the light receiver is a double sensor with two single sensors preferably arranged next to one another and symmetrically to the receiving axis.
48. (New): The analytical system as claimed in claim 42, wherein the light receiver has a collecting optical system whose optical axis defines the receiving axis for focussing the light reflected from the target surface.
49. (New): The analytical system as claimed in claim 42, wherein the light emitter has a light source in particular a point light source and a collimating optical system whose optical axis defines the incidence axis for generating a light beam which is incident on the target surface.
50. (New): The analytical system as claimed in claim 42, wherein the light emitter has a modulation stage for the time-varying and preferably pulsed-shaped actuation of a light source.
51. (New): The analytical system as claimed in claim 42, wherein the light emitter has an edge generator to produce non-linear and preferably exponentially increasing or decreasing light pulses.

52. (New): The analytical system as claimed in claim 42, wherein the triangulation unit has a signal processing circuit for determining changes in the distance relative to a reference position on the target surface.
53. (New): The analytical system as claimed in claim 52, wherein the signal processing circuit has a comparator and a timer to determine the time interval between specified signal amplitudes of output signals of the triangulation unit.
54. (New): The analytical system as claimed in claim 42, wherein the control device sets the constant distance between the target surface and measuring head by means of a servodrive.
55. (New): The analytical system as claimed in claim 42, further comprising a path measuring device to record the path of the measuring head for determining a height profile of the test object.
56. (New): The analytical system as claimed in claim 55, wherein the path measuring device has a height profile store to identify the test object.
57. (New): The analytical system as claimed in claim 42, further comprising an evaluation unit to standardize the results of the photometric analysis of the triangulation unit on the basis of the distance between the target surface and the measuring head.
58. (New): The analytical system as claimed in claim 42, wherein the light source is at the same time the light emitter and/or the radiation detector is at the same time the light receiver of the triangulation unit.

59. (New): A method for reflectometric analysis of a target surface of a test strip for body fluids, the method comprising:

arranging the target surface at a distance from a measuring head;

detecting a distance between the measuring head and target surface by means of a triangulation unit, operating on the basis of optical triangulation.

60. (New): The method as claimed in claim 39, wherein the changes in the distance relative to a reference distance of the target surface are detected by means of a corresponding light deflection onto a light receiver of the triangulation unit.

61. (New): The method as claimed in claim 39, wherein the distance is kept constant by means of a control device.